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*Published to advance the Science of cold-blooded vertebrates*

## RECORDS OF ABNORMAL VARIATIONS AMONG FISHES.

### 1. *Albinism.*

In the Museum of the Chicago Academy of Sciences there is a mounted specimen of an adult albino bow-fin (*Amia calva*), caught by Mr. George Wilcox at Kouts, Indiana. Mr. Frank Woodruff, Curator of that museum, who has kindly given me permission to record this interesting specimen, states that it was a typical pink-eyed albino.

A mounted albino gar, adult of *Lepisosteus platostomus*, was examined in October, 1917, at Pepin, Wisconsin. It was said by its owner and several fishermen of that place to have been caught in Lake Pepin, and to have been golden-colored in life, with pink eyes. They also referred to a red buffalo (*Ictiobus sp.*), which had been caught in Lake Pepin.

Among a number of adult albinistic brook trout (*Salvelinus fontinalis*), observed last year in the Rothschild Aquarium in Chicago, the following four types were represented:

- a. Eyes black; red spots evident.
  - b. Some black pigment on body.
  - bb. No black pigment on body.
- aa. Eyes pink; no black pigment on body.
  - c. Red spots evident.
  - cc. Red spots not evident.

## 2. *Simous malformation.*

One of the several medium-sized "blue cats" (*Ictalurus furcatus*) alive in the Rothschild Aquarium of Chicago shows a typical simous (or "bull-dog") malformation of the head, such as is often seen in hatchery salmonids.

## 3. *Elongated fins.*

One of the many adult individuals of *Notropis metallicus* collected by Mr. H. W. Keedy of Sanford, Florida, and brought by him alive to his aquarium in Chicago, had a somewhat abnormally formed "hunchbacked" body, combined with elongated pelvic and anal fins, the latter twice as large as in normal specimens. In its swimming it was slower and more jerky than normally-formed specimens of the same species, reminding one of the similarly abnormal gold-fishes (*Carassius auratus*). Elongated fins have been recorded as rarely occurring in other fishes, as the carp (Bean, Forest and Stream, 73, 1909, p. 1022, fig.) and the tench (Billiard, Bull. Soc. Zool. France, 37, 1912, p. 376, fig. 1).

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## REPTILE AND AMPHIBIAN NOTES FROM INTERVALE, NEW HAMPSHIRE.

In a recent article (COPEIA, No. 61, September 15, 1918) Dr. Evermann listed some reptiles and